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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/684,179		10/10/2003	Thorsten Kichne	02/059 MFE	2584	
38263	7590	02/08/2005		EXAM	INER	
PROPAT,		DOM AMETY DOAD	CHEN, VIVIAN			
425-C SOUTH SHARON AMITY ROAD CHARLOTTE, NC 28211-2841				ART UNIT	PAPER NUMBER	
				1773		
				DATE MAIL ED: 02/08/2004	DATE MAILED: 02/08/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		th/					
	Application No.	Applicant(s)					
	10/684,179	KIEHNE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Vivian Chen	1773					
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet wit	h the correspondence address					
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicat  - If the period for reply specified above is less than thirty (30) days  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION.  CFR 1.136(a). In no event, however, may a re ion.  5, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT attatute, cause the application to become ABA	ply be timely filed  (30) days will be considered timely.  FHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	22 November 2004.						
2a)⊠ This action is <b>FINAL</b> . 2b)□	This action is non-final.	·					
3) Since this application is in condition for a	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice un	nder <i>Ex part</i> e <i>Quayl</i> e, 1935 C.D.	11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-7,9-15 and 17-20</u> is/are pendi	Claim(s) <u>1-7,9-15 and 17-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are wi	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	· · · · · · · · · · · · · · · · · · ·						
6)⊠ Claim(s) <u>1-7,9-15 and 17-20</u> is/are reject	ed.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction	and/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by t	he Examiner. Note the attached	Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119		•					
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E	ments have been received. Iments have been received in Ape priority documents have been bureau (PCT Rule 17.2(a)).	oplication No received in this National Stage					
* See the attached detailed Office action for .	a list of the certified copies not r	received.					
Attachment(s)	-						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftsperson's Patent Drawing Review (PTO-94)</li> </ol>		ummary (PTO-413) )/Mail Date					
Information Disclosure Statement(s) (PTO-1449 or PTO/S  Paper No(s)/Mail Date		formal Patent Application (PTO-152)					

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#### **DETAILED ACTION**

1. Claims 8, 16 have been cancelled by Applicant.

## Claim Rejections - 35 USC § 103

2. Claims 1-7, 9-15, 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over EUROPEAN PATENT APPLICATION 1 176 004 (hereinafter EP '004),

in view of ENCYCLOPEDIA OF POLYMER SCIENCE (hereinafter POLYMER SCIENCE), and

in view of CULBERTSON ET AL (US 5,096,784).

EP '004 discloses a single-layer or multilayer film having the recited R-value, emax ratio, polyester compositions, symmetrical structures, fillers and/or white pigments such as titanium dioxide, thickness, method of making, and uses of said film. (see entire document, particularly paragraphs 0017-0021, claims) However, the reference does not explicitly disclose acrylic coatings.

POLYMER SCIENCE discloses that it is well known in the art to apply functional coatings to polyester films in order to improve slip properties (page 201).

CULBERTSON ET AL '784 discloses that it is well known in the art to apply crosslinkable aqueous acrylic coating to control the slip properties of polyester films wherein the acrylic coating contains an acrylic resin consisting of an acrylate copolymer containing self-crosslinking comonomers and wherein the coating further contains surfactants, wherein the

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coating has a typical coefficient of friction of 0.3-0.7. (line 17-43, col. 4; line 64, col. 6 to line 50, col. 8; line 42-45, col. 10)

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to apply known acrylic-based slip coatings as disclosed in CULBERTSON ET AL '784 to the polyester films of EP '004 in order to improve film-handling properties. One of ordinary skill in the art would have used conventional protective and/or coloration-modifying additives (e.g., UV absorbers, stabilizers, pigments, dyes, bluing agents, brighteners, etc.) to reduce undesirable yellowing (claim 14).

## Response to Arguments

- 3. Applicant's arguments filed 11/22/2004 have been fully considered but they are not persuasive.
- (A) Applicant's arguments regarding CULBERTSON ET AL '363 or KELLY or ULLMANN'S have been considered but are moot in view of the new ground(s) of rejection.
- (B) Applicant argues that EP '004 and the other previously relied upon references each fail to explicitly disclose every single feature of the claimed invention. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). EP '004 discloses a majority of the features recited in the present claims. Those features not explicitly disclosed by EP '004 are features or modifications well

known in the art as illustrated by the presently relied upon secondary references CULBERTSON ET AL '784 and POLYMER SCIENCE.

(C) In regard to Applicant's arguments regarding the use of encyclopedic references such as ULLMANN'S (and presumably POLYMER SCIENCE), such references are relied upon to illustrate and establish the general knowledge of one of ordinary skill in the art of polymeric films. Specifically, the references discuss well known problems and performance issues with polyester films, and illustrates conventional, well established methods of addressing such problems and issues (typically the use of appropriate additives and/or coatings with clearly known functions and benefits) and thereby provide clear motivation for one of ordinary skill in the art to combine the teachings of CULBERTSON ET AL '784 with EP '004 in order to further enhance the surface characteristics and overall performance of the EP '004 films. Applicant has not provided any probative evidence of criticality or unexpected results from the use of such well established practices in the art such the use of slip-improving coatings, color-modifying pigments, etc.

#### Conclusion

1. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vivian Chen whose telephone number is (571) 272-1506. The examiner can normally be reached on Monday through Thursday from 8:30 AM to 6 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones, can be reached on (571) 272-1516. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

The General Information telephone number for Technology Center 1700 is (571) 272-1700.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 3, 2005

Vivian Chen Primary Examiner Art Unit 1773